

**IFWO** 

RAW SEQUENCE LISTING

3 <110> APPLICANT: Grasso, Patricia

DATE: 09/14/2004

PATENT APPLICATION: US/10/698,510

TIME: 10:25:23

Input Set : A:\19705-001CIP.ST25.txt
Output Set: N:\CRF4\09142004\J698510.raw

Lee, Daniel 5 Leinung, Matthew 7 <120> TITLE OF INVENTION: Leptin Related Peptides 9 <130> FILE REFERENCE: 19705-001CIP 11 <140 > CURRENT APPLICATION NUMBER: US 10/698,510 12 <141> CURRENT FILING DATE: 2003-10-31 14 <150> PRIOR APPLICATION NUMBER: US 60/422,723 15 <151> PRIOR FILING DATE: 2002-10-31 17 <150> PRIOR APPLICATION NUMBER: US 09/377,081 18 <151> PRIOR FILING DATE: 1999-08-19 20 <160> NUMBER OF SEQ ID NOS: 42 22 <170> SOFTWARE: PatentIn version 3.2 24 <210> SEQ ID NO: 1 25 <211> LENGTH: 167 26 <212> TYPE: PRT 27 <213 > ORGANISM: Mus musculus 29 <400> SEQUENCE: 1 31 Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr Leu 35 Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys 20 39 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr 40 43 Gln Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro 47 Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala 70 75 51 Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu Gln 90 55 Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala 56 100 105 59 Phe Ser Lys Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro 120 63 Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val 135 140 67 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln 150 155 71 Leu Asp Val Ser Pro Glu Cys 75 <210> SEQ ID NO: 2 76 <211> LENGTH: 7 77 <212> TYPE: PRT

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Input Set : A:\19705-001CIP.ST25.txt
Output Set: N:\CRF4\09142004\J698510.raw

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82 Ser Cys Ser Leu Pro Gln Thr
83 1
86 <210> SEQ ID NO: 3
87 <211> LENGTH: 15
88 <212> TYPE: PRT
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91 <400> SEQUENCE: 3
93 Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile
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97 <210> SEQ ID NO: 4
98 <211> LENGTH: 15
99 <212> TYPE: PRT
100 <213> ORGANISM: Mus musculus
102 <400> SEQUENCE: 4
104 Thr Lys Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile
105 1
108 <210> SEQ ID NO: 5
109 <211> LENGTH: 15
110 <212> TYPE: PRT
111 <213> ORGANISM: Mus musculus
113 <400> SEQUENCE: 5
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119 <210> SEQ ID NO: 6
120 <211> LENGTH: 15
121 <212> TYPE: PRT
122 <213> ORGANISM: Mus musculus
.124 <400> SEQUENCE: 6
126 Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro Gly
127 1
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130 <210> SEQ ID NO: 7
131 <211> LENGTH: 15
132 <212> TYPE: PRT
133 <213> ORGANISM: Mus musculus
135 <400> SEQUENCE: 7
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143 <212> TYPE: PRT
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149 1
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152 <210> SEQ ID NO: 9
153 <211> LENGTH: 15
154 <212> TYPE: PRT
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Input Set : A:\19705-001CIP.ST25.txt
Output Set: N:\CRF4\09142004\J698510.raw

155 <213 > ORGANISM: Mus musculus 157 <400> SEQUENCE: 9 159 Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu 10 163 <210> SEQ ID NO: 10 164 <211> LENGTH: 15 165 <212> TYPE: PRT 166 <213> ORGANISM: Mus musculus 168 <400> SEQUENCE: 10 170 Ser Gln Asn Val Leu Gln Ile Ala Asn Asp Leu Glu Asn Leu Arg 10 174 <210> SEQ ID NO: 11 175 <211> LENGTH: 15 176 <212> TYPE: PRT 177 <213> ORGANISM: Mus musculus 179 <400> SEQUENCE: 11 181 Asp Leu Leu His Leu Leu Ala Phe Ser Lys Ser Cys Ser Leu Pro 10 185 <210> SEQ ID NO: 12 186 <211> LENGTH: 15 187 <212> TYPE: PRT 188 <213> ORGANISM: Mus musculus 190 <400> SEQUENCE: 12 192 Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro Glu Ser 1.0 196 <210> SEQ ID NO: 13 197 <211> LENGTH: 15 198 <212> TYPE: PRT 199 <213> ORGANISM: Mus musculus 201 <400> SEQUENCE: 13 203 Gln Lys Pro Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr 204 1 10 207 <210> SEQ ID NO: 14 208 <211> LENGTH: 15 209 <212> TYPE: PRT 210 <213> ORGANISM: Mus musculus 212 <400> SEQUENCE: 14 214 Glu Ala Ser Leu Tyr Ser Thr Glu Val Val Ala Leu Ser Arg Leu 215 1 10 15 218 <210> SEQ ID NO: 15 219 <211> LENGTH: 15 220 <212> TYPE: PRT 221 <213> ORGANISM: Mus musculus 223 <400> SEQUENCE: 15 225 Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln 10 229 <210> SEQ ID NO: 16 230 <211> LENGTH: 12 231 <212> TYPE: PRT

#### RAW SEQUENCE LISTING

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Input Set : A:\19705-001CIP.ST25.txt Output Set: N:\CRF4\09142004\J698510.raw

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241 <211> LENGTH: 167
242 <212> TYPE: PRT
243 <213> ORGANISM: Homo sapiens
245 <400> SEQUENCE: 17
247 Met His Trp Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr Leu
251 Phe Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
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                                    25
255 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
259 Gln Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro
263 Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr Leu Ala
264 65
                        70
                                            75
267 Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val Ile Gln
                    85
                                        90
271 Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala
272
    100
                                   105
275 Phe Ser Lys Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu Thr Leu
     115
                                120
279 Asp Ser Leu Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val
280 130
                           135
                                                140
283 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Trp Gln
284 145
                       150
                                           155
287 Leu Asp Leu Ser Pro Gly Cys
291 <210> SEQ ID NO: 18
292 <211> LENGTH: 7
293 <212> TYPE: PRT
294 <213> ORGANISM: Homo sapiens
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299 1
302 <210> SEQ ID NO: 19
303 <211> LENGTH: 18
304 <212> TYPE: PRT
305 <213> ORGANISM: Homo sapiens
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310 1
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313 Ser Lys
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318 <211> LENGTH: 7
319 <212> TYPE: PRT
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DATE: 09/14/2004

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PATENT APPLICATION: US/10/698,510
                                                               TIME: 10:25:23
                      Input Set : A:\19705-001CIP.ST25.txt
                      Output Set: N:\CRF4\09142004\J698510.raw
     320 <213> ORGANISM: Artificial
     322 <220> FEATURE:
     323 <223> OTHER INFORMATION: D-amino acid substituted analog corresponding to mouse
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     324
               ID NO:2
     327 <220> FEATURE:
     328 <221> NAME/KEY: MOD RES
     329 <222> LOCATION: (1)..(1)
     330 <223> OTHER INFORMATION: wherein Serine is in the D-isoform
     332 <400> SEQUENCE: 20
     334 Ser Cys Ser Leu Pro Gln Thr
     335 1
     338 <210> SEQ ID NO: 21
     339 <211> LENGTH: 7
     340 <212> TYPE: PRT
     341 <213> ORGANISM: Artificial
     343 <220> FEATURE:
     344 <223> OTHER INFORMATION: D-amino acid substituted analog corresponding to mouse
leptin SEO
               ID NO:2
     348 <220> FEATURE:
     349 <221> NAME/KEY: MOD RES
     350 <222> LOCATION: (2)..(2)
     351 <223> OTHER INFORMATION: wherein Cysteine is in the D-isoform
     353 <400> SEQUENCE: 21
     355 Ser Cys Ser Leu Pro Gln Thr
     356 1
     359 <210> SEQ ID NO: 22
     360 <211> LENGTH: 7
     361 <212> TYPE: PRT
     362 <213> ORGANISM: Artificial
     364 <220> FEATURE:
     365 <223> OTHER INFORMATION: D-amino acid substituted analog corresponding to mouse
leptin SEQ
     366
               ID NO:2
     369 <220> FEATURE:
     370 <221> NAME/KEY: MOD RES
     371 <222> LOCATION: (3)..(3)
     372 <223> OTHER INFORMATION: wherein Serine is in the D-isoform
     374 <400> SEQUENCE: 22
     376 Ser Cys Ser Leu Pro Gln Thr
     377 1
     380 <210> SEQ ID NO: 23
     381 <211> LENGTH: 7
     382 <212> TYPE: PRT
     383 <213> ORGANISM: Artificial
     385 <220> FEATURE:
     386 <223> OTHER INFORMATION: D-amino acid substituted analog corresponding to mouse
leptin SEO
     387
               ID NO:2
     390 <220> FEATURE:
     391 <221> NAME/KEY: MOD RES
     392 <222> LOCATION: (4)..(4)
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/698,510

DATE: 09/14/2004 TIME: 10:25:24

Input Set : A:\19705-001CIP.ST25.txt
Output Set: N:\CRF4\09142004\J698510.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; Xaa Pos. 1,4,7,8,9

### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/698,510

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Input Set : A:\19705-001CIP.ST25.txt
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L:743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0